

# MRP Calculation

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Material requirements planning (MRP) is a system for calculating the materials and components needed to manufacture a product. It consists of three primary steps: taking inventory of the materials and components on hand, identifying which additional ones are needed and then scheduling their production or purchase.

## Business process

MRP, which is done primarily through specialized software, helps ensure that the right inventory is available for the production process exactly when it is needed and at the lowest possible cost. As such, MRP improves the efficiency, flexibility and profitability of manufacturing operations. It can make factory workers more productive, improve product quality and minimize material and labor costs. MRP also helps manufacturers respond more quickly to increased demand for their products and avoid production delays and inventory stockouts that can result in lost customers, which in turn contributes to revenue growth and stability.

# MRP calculation

The screenshot shows a software window titled "MRP Calculation" with a tabbed interface. The "MRP Calculation" tab is active. The form is organized into three main columns of input fields. The first column on the left includes fields for "Product", "Attribute Set Instance", "Planner", "Warehouse", "Resource", "Date from", "Date to", and a checkbox for "Is MPS". The middle column includes "UOM", "On Hand Quantity", "Safety Stock Qty", "Quantity", "Available", and "Ordered Quantity", along with checkboxes for "Create Plan" and "Required Calculate MRP". The third column on the right includes "Order Policy", "Order Period", "Minimum Order Qty", "Maximum Order Qty", "Order Pack Qty", "Order Qty", "Time Fence", "Promised Delivery Time", and "Yield %". At the bottom of the window, there is a toolbar with "ReQuery", "Zoom", and "Print" icons, and buttons for "OK" and "Cancel".

Product: User can mention the product name.

Planner : User can mention the planner

warehouse : user can mention the warehouse name here.

Resource: User can mention the resource here.

Date from: user can mention the date here.

Date to: User can mention the date here.

while user click on the "ok" system will calculate the MRP.